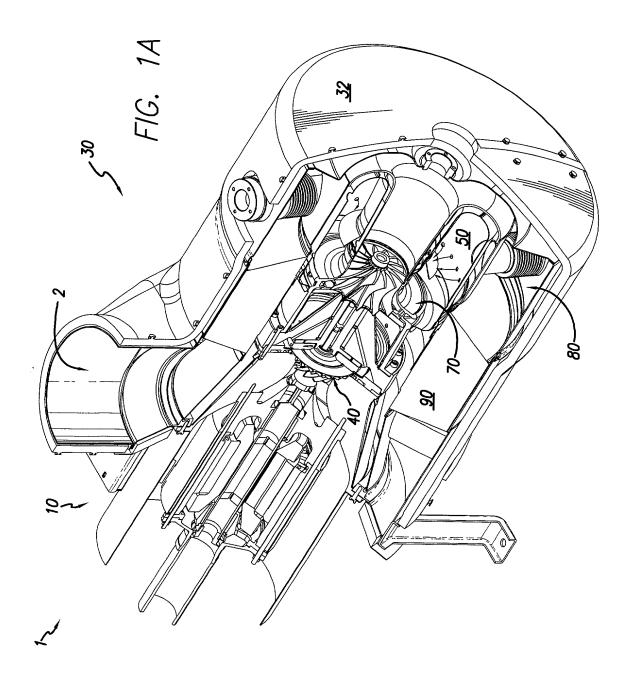
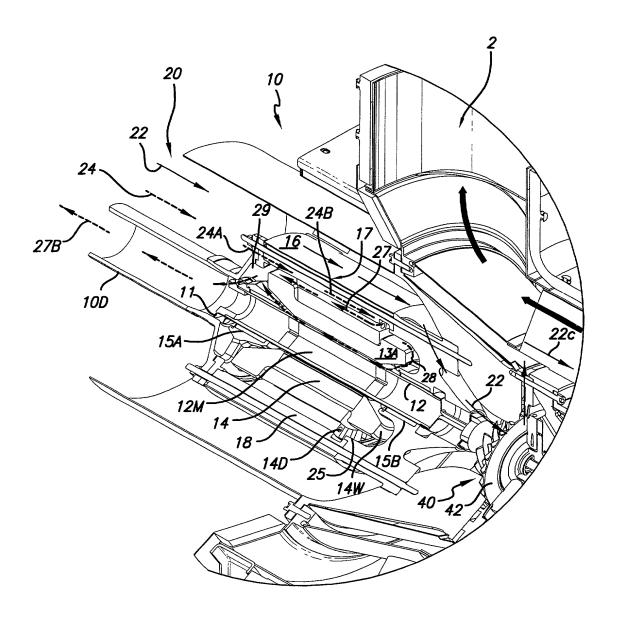
OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 1 OF 14

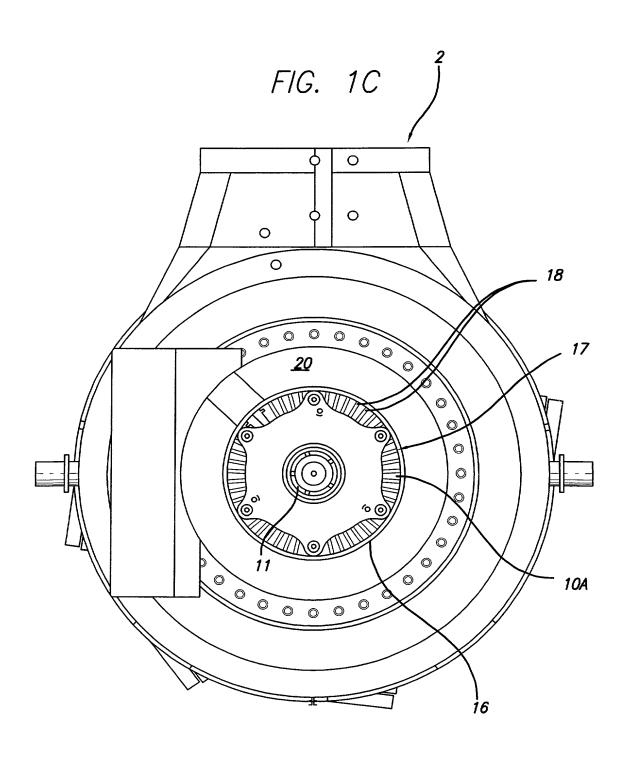


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET <u>2</u> OF <u>14</u>

FIG. 1B

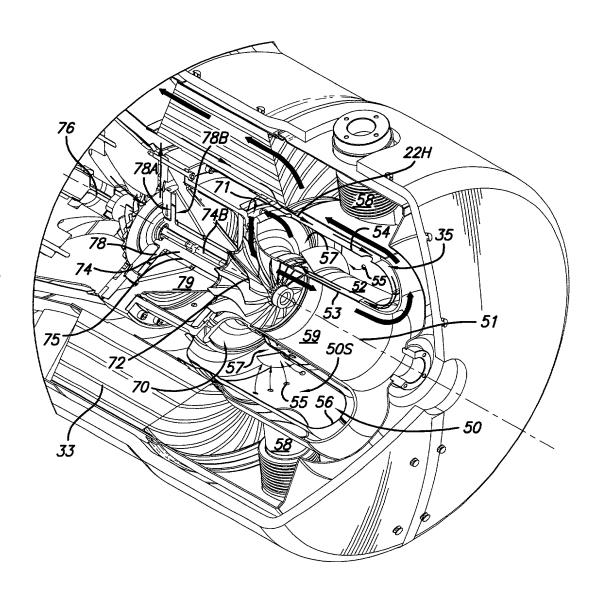


OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 3 OF 14

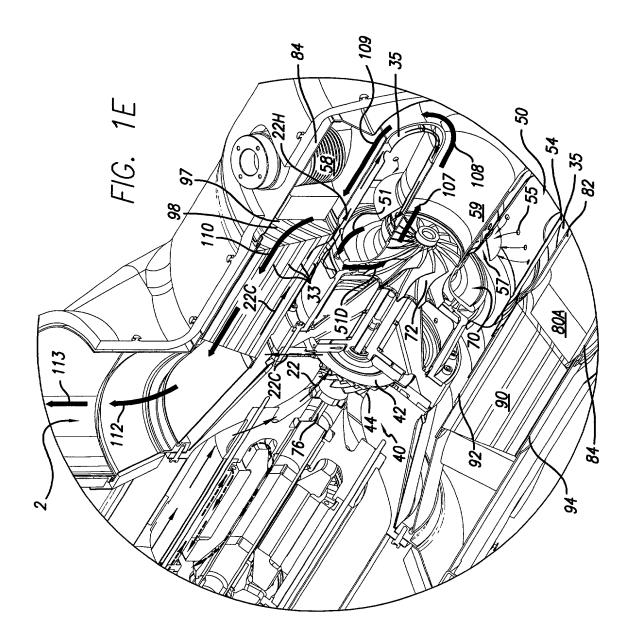


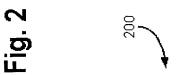
OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 4\_ OF 14\_

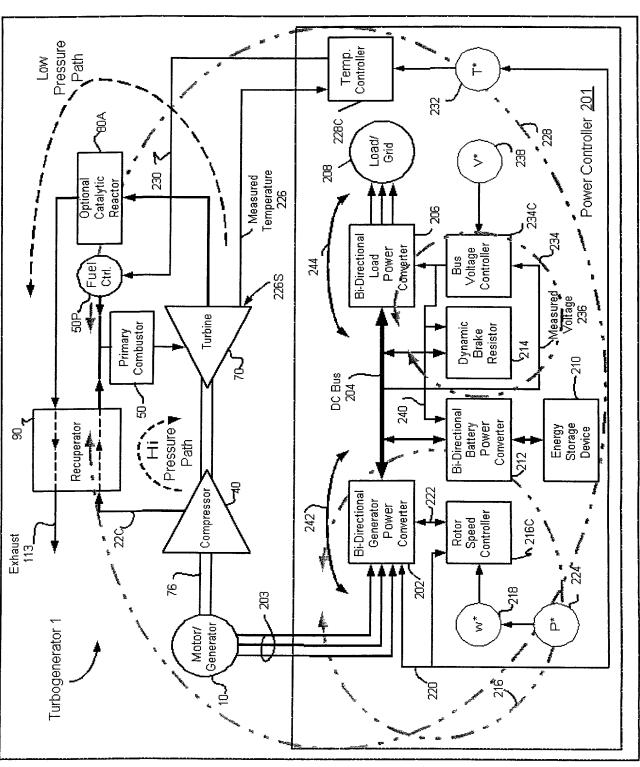
FIG. 1D



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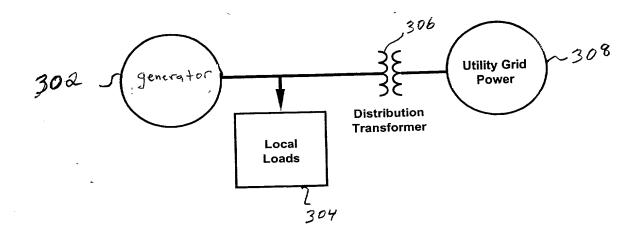


Figure 3

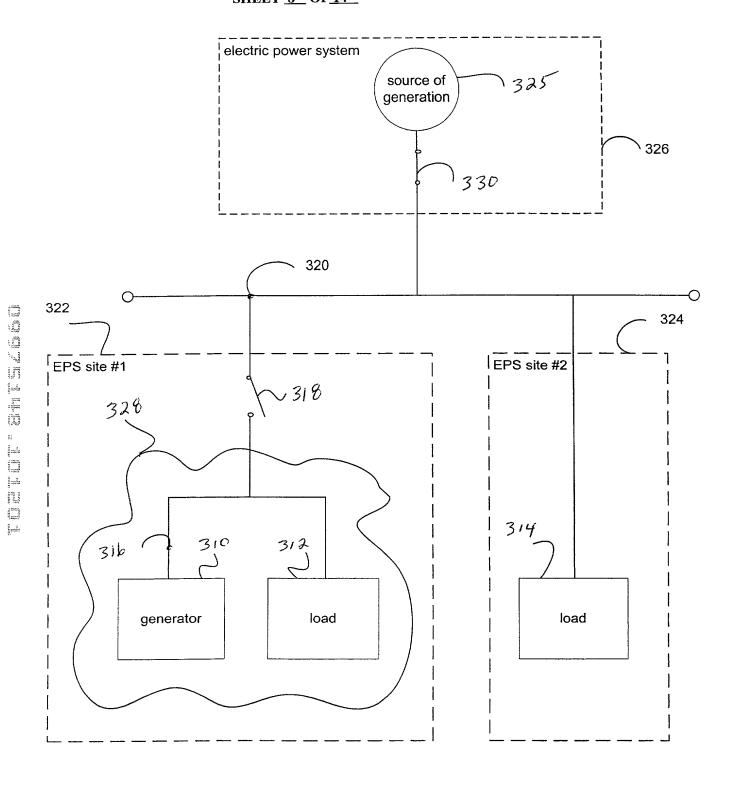


FIGURE 4

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 9 OF 14

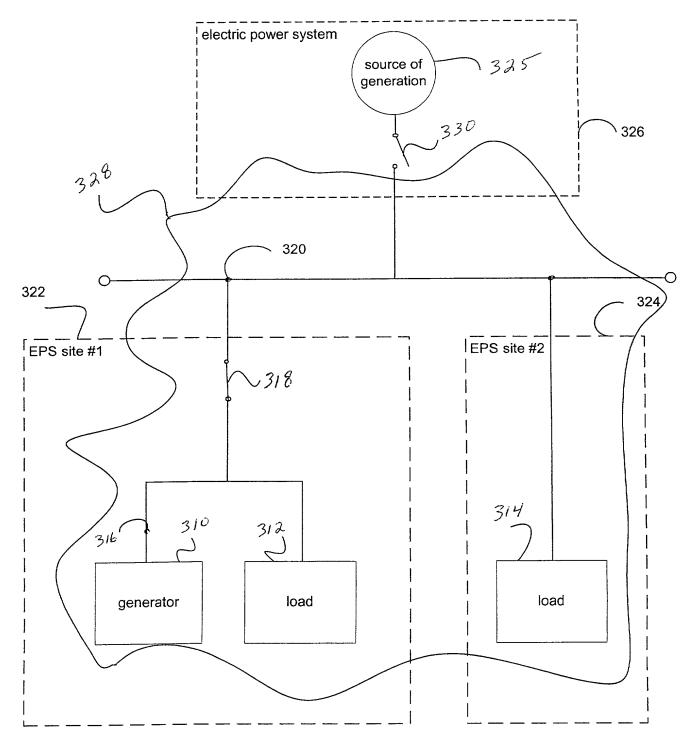
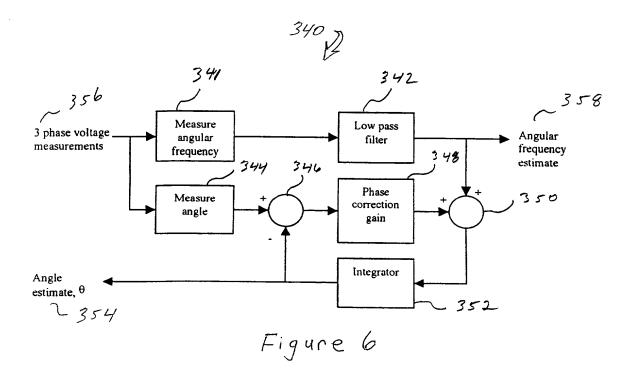
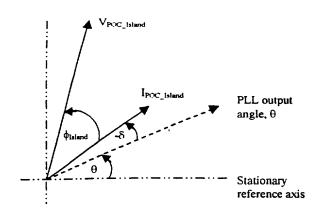


FIGURE 5

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 10 OF 14





Islanded DR generator current magnitude at the POC (A) · IPOC\_island Islanded voltage magnitude at the POC (V)  $V_{\text{POC\_Island}}$ Impedance magnitude of the island looking into the POC ( $\Omega$ )  $Z_{Island}$ Impedance phase-angle of the island looking into the POC (radians) φ<sub>Island</sub> Demanded real power output of the DR generator (W)  $P_{DRG}$ Demanded reactive power output of the DR generator (lagging is positive) (VAr) **Q**DRG Angle output from the PLL (radians) θ δ Demanded current phase angle,  $\delta = \tan^{-1}(Q_{DRG}/P_{DRG})$  (radians)

Figure 7

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 11 OF 14

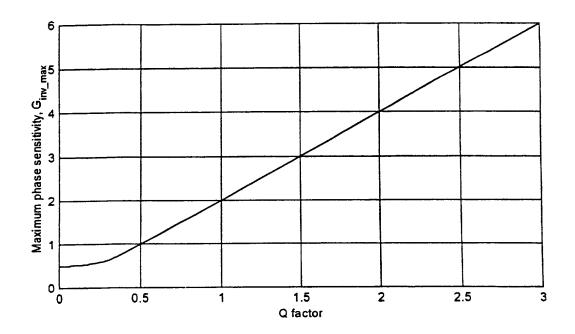


Figure: 8

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 12 OF 14

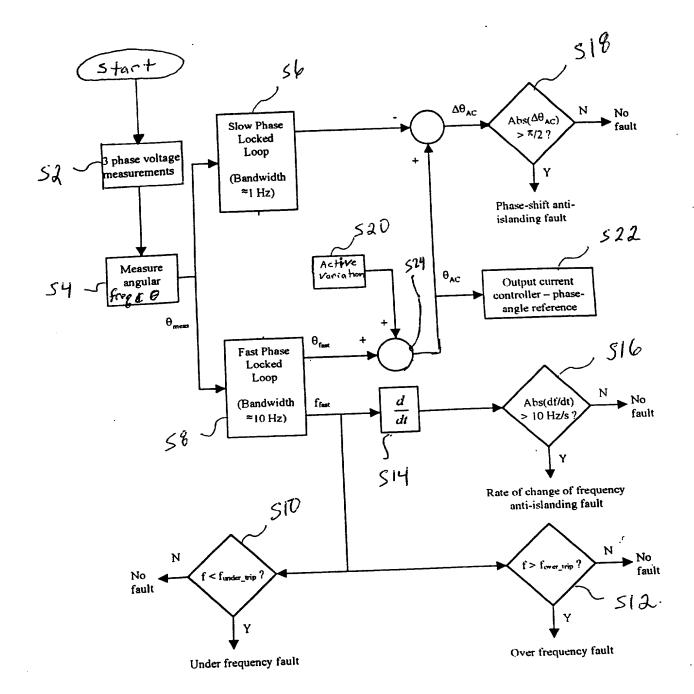


Figure 9A

14

OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 13 OF 14

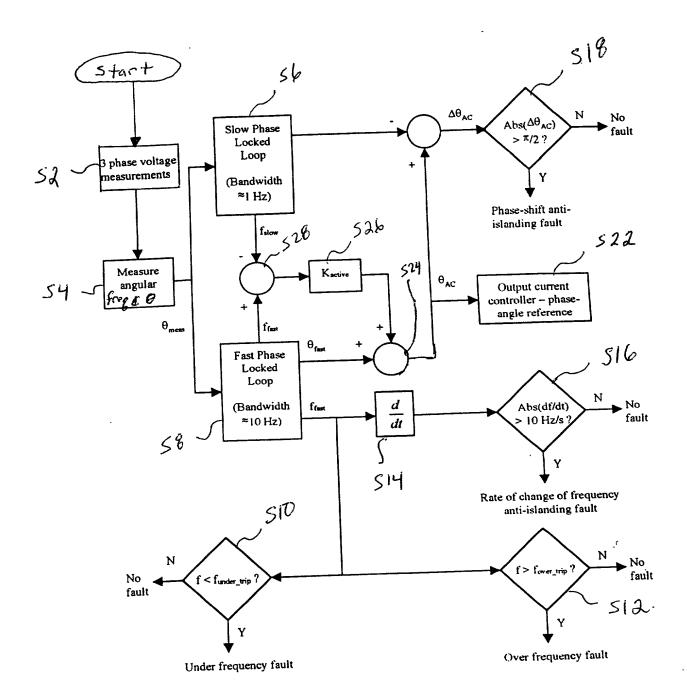


Figure 9B

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OBLON, SPIVAK, ET AL DOCKET #: 213114US-22 INV: Simon R. WALL SHEET 14 OF 14

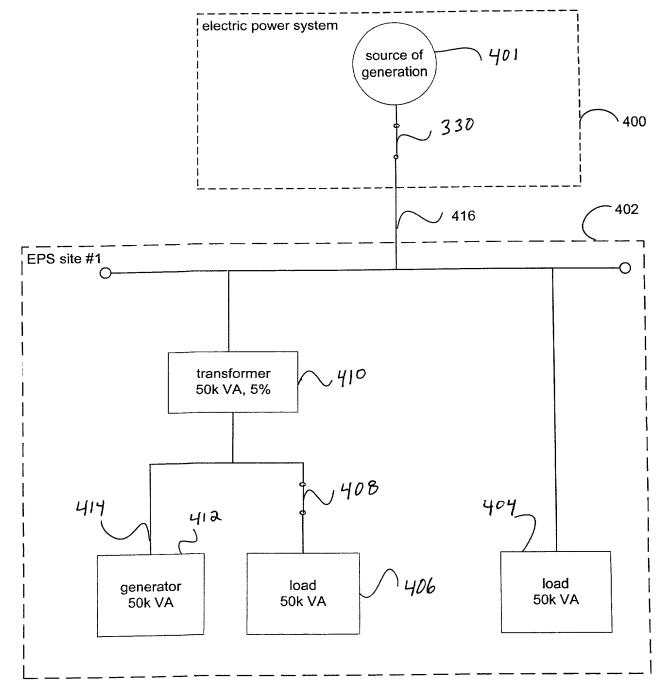


Figure 10